

Sample Metadata

NOTE: Blue text is information provided by the Contributor. Black text indicates the categories that are prepared and all other information that is extracted from the dataset when the shapefile is created using the ESRI software; the contributor does not have to develop this content.

Identification_Information:

Citation:

Citation_Information:

Originator: Ron Schlorff, California Department of Fish and Game

Publication_Date: 20050314

Publication_Time:

Title: Swainson's Hawk Breeding Territory Database

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: \\Molib01\BIOS\WorkArea\34-

SwainsonsHawkDB\vlready\Swainson's Hawk Breeding Territory Database.shp

Description:

Abstract:

The observation records represent the known historical and recent breeding distribution of Swainson's hawks in California. The majority of records come from in the Central Valley with lesser numbers coming from Siskiyou, Modoc and Lassen counties, and from the Bishop area in Inyo and Mono counties. There are two records from southern California. These data were gathered from 1970 to 1994. Of these, 99.9 percent of the observations were more recent than 1975.

Observations were made mainly by doing road surveys through likely habitat to find flying Swainson's hawks during the breeding season. Some surveys were conducted from boats from the Sacramento River. Once Swainson's hawks were seen, they were watched to determine if they were showing courtship or nesting behavior or would lead observers to nest sites or trees that possibly contained nests which could not be easily seen. Once a Swainson's hawk nest was found in an area, other potential nest sites in the general vicinity were checked to see if the hawks were present but not generally visible.

Observations were made mainly by Department and other agency biologists and volunteer ornithologists and birders. Observation data was compiled and entered into a database by the Bird and Mammal Conservation Program, Wildlife Management Division, in the late 1980's and additional data were added until mid-1995.

WHAT EACH RECORD REPRESENTS:

The database represents Swainson's hawk observations and known nest sites in California. There are fields describing the number and activity of the hawks observed, if nests and/or young were observed, nest tree species, the observation location (township/range/ section and X-Y coordinates), type of habitat surrounding observation location, and who made the observation and when that observation was made.

Purpose:

The database was designed to track the known breeding distribution pattern, history of breeding site occupancy, and trends in land use around nest sites in California. Each unique territory is identified providing the ability to estimate known nest site distribution, potential numbers of nests, and over time, changes in distribution and numbers. The database may be used for development project review where site-specific information and history of occupation could be evaluated to determine how a specific project might impact

the hawks, to design project modifications to avoid conflicts, and to support management planning, monitoring and research.

DATA ASSUMPTIONS AND LIMITATIONS:

Significant general assumptions of the data were: 1) Swainson's hawks found spending time in a specific area during the nesting season could be called a territorial, and 2) a site is a location on the landscape that may be occupied by different Swainson's hawks over time.

KNOWN CAVEATS OF THE DATA:

Caveats include: 1) the accuracy of the point representing the territory in any given year is only as accurate as the legal description of that site provided by the original observer (i.e., if only the section was provided by the observer, then the territory could have been anywhere in the section, or if a quarter section is given, no more accurate than in that quarter section, and so on) and the point representing a territory location could be in a different county than the nest actually was in, 2) where river mile notations are given in the Location field, points represented on the map may not be accurate because the river miles were established years ago with the river often in a different channel, and interpretation of river mile points may vary among observers and among data handlers trying to assign point coordinates to represent a given observation, 3) observers could misidentified which territory breeding birds should be assigned to in subsequent years following the first year in which the territory was described, especially in areas where nesting territories were clumped 4) some observations are combined to represent a number of observations in a single year in one record, and 5) some valid observations with incomplete date are included.

Supplemental_Information:

The base data contains 1856 records including a number that note changes in territory identification codes and that do not have specific enough locations to provide a reasonable representation of where the observation was made. There are 1814 observation records with adequate enough descriptions to produce a point locations for each presented here. They represent approximately 808 territories in 24 counties. There were multiple-year sightings at numerous territories.

SPATIAL DATA CAPTURE METHODS:

Original location information was gathered using legal descriptions (township, range, and section information). Some early observations are based on directions/distances from a known landmark and converted to a legal description. In order get coordinates to plot, the legal descriptions were converted to X-Y coordinates using NAD 83 datum. This was done by creating a conversion program that converted the section center, the center of a quarter section, or the center of a sixteenth section for each section in California to an X-Y coordinate pair. This accounts for the coordinates of about 1746 of the observations. Coordinates could be determined for another 68 sites by using location descriptions and the River Mile marks along the Sacramento River noted by observers.

NATIVE DATA FORMAT:

In error checking this data to create a BIOS layer, the base data format was transformed from a single table Visual dBASE file to both an Excel file and an Access database.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:
Beginning_Date: 1977
Ending_Date: 1994
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: None planned
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -122.562297
East_Bounding_Coordinate: -114.555438
North_Bounding_Coordinate: 41.987262
South_Bounding_Coordinate: 34.579100
Keywords:
Theme:
Theme_Keyword: Swainson's hawk
Theme_Keyword: Buteo swainsoni
Theme_Keyword: nests
Theme_Keyword: observations
Theme_Keyword: reproductive sites
Theme_Keyword: territories
Place:
Place_Keyword: Central Valley
Place_Keyword: Great Basin
Place_Keyword: Modoc
Place_Keyword: Siskiyou
Place_Keyword: Inyo
Place_Keyword: Owens Valley
Place_Keyword: desert
Place_Keyword: statewide
Place_Keyword: California
Place_Keyword: northern California
Access_Constraints: No restrictions
Use_Constraints: Recognition that the dataset was created and provided by the California Department of Fish and Game.
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Ron Schlorff
Contact_Organization: California Department of Fish and Game, Habitat Conservation Division, Resource Assessment Program
Contact_Position: Associate Wildlife Biologist
Contact_Address:
Address_Type: mailing and physical address
Address: 1416 Ninth Street
City: Sacramento
State_or_Province: CA
Postal_Code: 95814
Contact_Voice_Telephone: (916) 654-4262
Contact_Electronic_Mail_Address: rschlorff@dfg.ca.gov
Native_Data_Set_Environment: Microsoft Windows 2000 Version 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog 8.3.0.800
Data_Quality_Information:
Lineage:
Process_Step:
Process_Description:
Source_Used_Citation_Abbreviation: C:\BALbersXYSwHaBrTeDb

Process_Step:
 Process_Description:
 Source_Used_Citation_Abbreviation: \\Molib01\BIOS\WorkArea\34-SwainsonsHawkDB\vl\BALbersXYSwHaBrTeDb
Spatial_Data_Organization_Information:
 Direct_Spatial_Reference_Method: Vector
 Point_and_Vector_Object_Information:
 SDTS_Terms_Description:
 SDTS_Point_and_Vector_Object_Type: Entity point
 Point_and_Vector_Object_Count: 1814
Spatial_Reference_Information:
 Horizontal_Coordinate_System_Definition:
 Planar:
 Map_Projection:
 Map_Projection_Name: Albers Conical Equal Area
 Albers_Conical_Equal_Area:
 Standard_Parallel: 34.000000
 Standard_Parallel: 40.500000
 Longitude_of_Central_Meridian: -120.000000
 Latitude_of_Projection_Origin: 0.000000
 False_Easting: 0.000000
 False_Northing: -4000000.000000
 Planar_Coordinate_Information:
 Planar_Coordinate_Encoding_Method: coordinate pair
 Coordinate_Representation:
 Abscissa_Resolution: 0.002048
 Ordinate_Resolution: 0.002048
 Planar_Distance_Units: meters
 Geodetic_Model:
 Horizontal_Datum_Name: North American Datum of 1983
 Ellipsoid_Name: Geodetic Reference System 80
 Semi-major_Axis: 6378137.000000
 Denominator_of_Flattening_Ratio: 298.257222
Entity_and_Attribute_Information:
 Detailed_Description:
 Entity_Type:
 Entity_Type_Label: Swainson's Hawk Breeding Territory Database
 Attribute:
 Attribute_Label: FID
 Attribute_Definition: Internal feature number.
 Attribute_Definition_Source: ESRI
 Attribute_Domain_Values:
 Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
 Attribute:
 Attribute_Label: Shape
 Attribute_Definition: Feature geometry.
 Attribute_Definition_Source: ESRI
 Attribute_Domain_Values:
 Unrepresentable_Domain: Coordinates defining the features.
 Attribute:
 Attribute_Label: TERRNO
 Attribute_Definition: This unique identifier represents the geographical location of a sighting or breeding occurrence. An effort was made to assign the same territory number (TERRNO) to multiple observations that indicate the same breeding or foraging territory.

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: BU

Enumerated_Domain_Value_Definition: Butte County

Enumerated_Domain:

Enumerated_Domain_Value: CO

Enumerated_Domain_Value_Definition: Colusa County

Enumerated_Domain:

Enumerated_Domain_Value: FR

Enumerated_Domain_Value_Definition: Fresno County

Enumerated_Domain:

Enumerated_Domain_Value: GL

Enumerated_Domain_Value_Definition: Glenn County

Enumerated_Domain:

Enumerated_Domain_Value: IN

Enumerated_Domain_Value_Definition: Inyo County

Enumerated_Domain:

Enumerated_Domain_Value: KE

Enumerated_Domain_Value_Definition: Kern County

Enumerated_Domain:

Enumerated_Domain_Value: LA

Enumerated_Domain_Value_Definition: Los Angeles County

Enumerated_Domain:

Enumerated_Domain_Value: LS

Enumerated_Domain_Value_Definition: Lassen County

Enumerated_Domain:

Enumerated_Domain_Value: MA

Enumerated_Domain_Value_Definition: Madera County

Enumerated_Domain:

Enumerated_Domain_Value: MC

Enumerated_Domain_Value_Definition: Modoc County

Enumerated_Domain:

Enumerated_Domain_Value: ME

Enumerated_Domain_Value_Definition: Merced County

Enumerated_Domain:

Enumerated_Domain_Value: MN

Enumerated_Domain_Value_Definition: Mono County

Enumerated_Domain:

Enumerated_Domain_Value: PC

Enumerated_Domain_Value_Definition: Placer County

Enumerated_Domain:

Enumerated_Domain_Value: PL

Enumerated_Domain_Value_Definition: Plumas County

Enumerated_Domain:

Enumerated_Domain_Value: SA

Enumerated_Domain_Value_Definition: Sacramento County

Enumerated_Domain:

Enumerated_Domain_Value: SB

Enumerated_Domain_Value_Definition: San Bernardino County

Enumerated_Domain:

Enumerated_Domain_Value: SJ

Enumerated_Domain_Value_Definition: San Joaquin County

Enumerated_Domain:

Enumerated_Domain_Value: SK

Enumerated_Domain_Value_Definition: Siskiyou County

Enumerated_Domain:

Enumerated_Domain_Value: SO

Enumerated_Domain_Value_Definition: Solano County
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: Stanislaus County
Enumerated_Domain:
Enumerated_Domain_Value: SU
Enumerated_Domain_Value_Definition: Sutter County
Enumerated_Domain:
Enumerated_Domain_Value: TE
Enumerated_Domain_Value_Definition: Tehama County
Enumerated_Domain:
Enumerated_Domain_Value: TU
Enumerated_Domain_Value_Definition: Tulare County
Enumerated_Domain:
Enumerated_Domain_Value: YO
Enumerated_Domain_Value_Definition: Yolo County
Attribute:
Attribute_Label: OBSDATE
Attribute_Definition: Date that the observation was made.
Attribute:
Attribute_Label: OBSERVER
Attribute_Definition: Observer(s)'s last name
Attribute:
Attribute_Label: NUMACT
Attribute_Definition: Provides information on the number of Swainson's hawks observed except does not include the number of eggs, nestlings, or fledglings.
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: F
Enumerated_Domain_Value_Definition: Flying
Enumerated_Domain:
Enumerated_Domain_Value: N
Enumerated_Domain_Value_Definition: Nesting
Enumerated_Domain:
Enumerated_Domain_Value: P
Enumerated_Domain_Value_Definition: Perched
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Soaring
Enumerated_Domain:
Enumerated_Domain_Value: NO
Enumerated_Domain_Value_Definition: No Swainson's hawk activity was observed.
Enumerated_Domain:
Enumerated_Domain_Value: YES
Enumerated_Domain_Value_Definition: There was at least one Swainson's hawk observed but the observer did not provide the number of hawks nor their activity.
Attribute:
Attribute_Label: NESTKNOWN
Attribute_Definition: A "Y" indicates that a nest was seen and verified. A blank field indicates either the nest was not found or was not searched for.
Attribute:
Attribute_Label: NUMADULTS
Attribute_Definition: The number of adults seen in the nesting territory.
Attribute:

Attribute_Label: NUMYOY
Attribute_Definition: Number of individuals counted that was hatched in the observation year. Here relates to the number of young of the year seen at on near the nest. Number is accompanied by the age of the young.

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EG
Enumerated_Domain_Value_Definition: Egg
Enumerated_Domain:
Enumerated_Domain_Value: FL
Enumerated_Domain_Value_Definition: Fledgling
Enumerated_Domain:
Enumerated_Domain_Value: YG
Enumerated_Domain_Value_Definition: Young

Attribute:
Attribute_Label: LOCATION
Attribute_Definition: This is a very short text description of where the nesting territory is located. Usually uses names from USGS quad in description.

Attribute:
Attribute_Label: NESTTREE
Attribute_Definition: Minimally provides the species of the nest tree. Also, can include the height of the nest and the height of the tree (e.g., CW, 30 up 35' = nest 30' up in a 35' cottonwood).

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ASH
Enumerated_Domain_Value_Definition: Oregon Ash
Enumerated_Domain:
Enumerated_Domain_Value: ALM
Enumerated_Domain_Value_Definition: Almond
Enumerated_Domain:
Enumerated_Domain_Value: BO
Enumerated_Domain_Value_Definition: Blue Oak
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: Conifer (Deodar Cedar)
Enumerated_Domain:
Enumerated_Domain_Value: CW
Enumerated_Domain_Value_Definition: Cottonwood
Enumerated_Domain:
Enumerated_Domain_Value: EL
Enumerated_Domain_Value_Definition: American Elm
Enumerated_Domain:
Enumerated_Domain_Value: EU
Enumerated_Domain_Value_Definition: Eucalyptus
Enumerated_Domain:
Enumerated_Domain_Value: JP
Enumerated_Domain_Value_Definition: Juniper
Enumerated_Domain:
Enumerated_Domain_Value: JS
Enumerated_Domain_Value_Definition: Joshua Tree
Enumerated_Domain:
Enumerated_Domain_Value: LO
Enumerated_Domain_Value_Definition: Interior Live Oak
Enumerated_Domain:
Enumerated_Domain_Value: LT
Enumerated_Domain_Value_Definition: Locust

Enumerated_Domain:
Enumerated_Domain_Value: O
Enumerated_Domain_Value_Definition: unspecified Oak
Enumerated_Domain:
Enumerated_Domain_Value: PC
Enumerated_Domain_Value_Definition: Pecan
Enumerated_Domain:
Enumerated_Domain_Value: SM
Enumerated_Domain_Value_Definition: Sycamore
Enumerated_Domain:
Enumerated_Domain_Value: VO
Enumerated_Domain_Value_Definition: Valley Oak
Enumerated_Domain:
Enumerated_Domain_Value: WI
Enumerated_Domain_Value_Definition: Willow
Enumerated_Domain:
Enumerated_Domain_Value: WT
Enumerated_Domain_Value_Definition: Walnut
Attribute:
Attribute_Label: HABITAT
Attribute_Definition: This is a code that represents the habitat(s) surrounding the nest location.
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Agriculture / croplands
Enumerated_Domain:
Enumerated_Domain_Value: CS
Enumerated_Domain_Value_Definition: Creosote scrub
Enumerated_Domain:
Enumerated_Domain_Value: D
Enumerated_Domain_Value_Definition: Developed / urban / residential
Enumerated_Domain:
Enumerated_Domain_Value: E
Enumerated_Domain_Value_Definition: Eucalyptus
Enumerated_Domain:
Enumerated_Domain_Value: G
Enumerated_Domain_Value_Definition: Grasslands / pasture
Enumerated_Domain:
Enumerated_Domain_Value: GBD
Enumerated_Domain_Value_Definition: Great Basin Desert
Enumerated_Domain:
Enumerated_Domain_Value: J
Enumerated_Domain_Value_Definition: Juniper
Enumerated_Domain:
Enumerated_Domain_Value: J-S
Enumerated_Domain_Value_Definition: Juniper sage
Enumerated_Domain:
Enumerated_Domain_Value: MDS
Enumerated_Domain_Value_Definition: Mixed desert scrub
Enumerated_Domain:
Enumerated_Domain_Value: O
Enumerated_Domain_Value_Definition: Oak woodland
Enumerated_Domain:
Enumerated_Domain_Value: OD
Enumerated_Domain_Value_Definition: Orchard
Enumerated_Domain:

Enumerated_Domain_Value: P
 Enumerated_Domain_Value_Definition: Pasture
 Enumerated_Domain:
 Enumerated_Domain_Value: R
 Enumerated_Domain_Value_Definition: Riparian
 Enumerated_Domain:
 Enumerated_Domain_Value: S
 Enumerated_Domain_Value_Definition: Sycamore

 Enumerated_Domain:
 Enumerated_Domain_Value: V
 Enumerated_Domain_Value_Definition: Vineyard
 Enumerated_Domain:
 Enumerated_Domain_Value: VP
 Enumerated_Domain_Value_Definition: Vernal pool
 Enumerated_Domain:
 Enumerated_Domain_Value: W
 Enumerated_Domain_Value_Definition: Wildlife area
 Attribute:
 Attribute_Label: MERIDIAN
 Attribute_Definition: The name of the public land survey grid system where the observation is located.
 Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value: M
 Enumerated_Domain_Value_Definition: Mt. Diablo
 Enumerated_Domain:
 Enumerated_Domain_Value: B
 Enumerated_Domain_Value_Definition: San Bernardino
 Attribute:
 Attribute_Label: TOWNSHIP
 Attribute_Definition: Township where the observation is located.
 Attribute:
 Attribute_Label: RANGE
 Attribute_Definition: Range where the observation is located.
 Attribute:
 Attribute_Label: SECTION
 Attribute_Definition: Section where the observation is located.
 Attribute:
 Attribute_Label: QTRSECTION
 Attribute_Definition: Given if the half section or quarter section has been determined at the observation location.
 Attribute:
 Attribute_Label: SXTNTHSEC
 Attribute_Definition: Given if the half of the quarter section or sixteenth section has been determined at the observation location.
 Attribute:
 Attribute_Label: LANDOWNER
 Attribute_Definition: Type of land-owner at the observation location; includes private lands and private landowners, companies and ranch names, public utilities, city, county, and state and their agencies, and federal and military lands.
 Attribute:
 Attribute_Label: XCOORD
 Attribute_Definition: The x coordinate (east-west) using NAD83 datum and Teale Albers projection.
 Attribute:

Attribute_Label: YCOORD
Attribute_Definition: The y coordinate (north-south) using NAD83 datum and Teale Albers projection.
Attribute:
Attribute_Label: COMMENTS
Attribute_Definition: Miscellaneous comments about the observation. The majority document the color phases (or morphs) of the Swainson's hawks observed. Abbreviations used include: LT = light phase, MD = medium coloration, DK = dark phase.
Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.761
Metadata_Reference_Information:
Metadata_Date: 20050314
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: California Department of Fish and Game, Habitat Conservation Division, Resource Assessment Program
Contact_Person: Ron Schlorff
Contact_Address:
Address_Type: mailing and physical address
Address: 1416 Ninth Street
City: Sacramento
State_or_Province: California
Postal_Code: 95814
Contact_Voice_Telephone: (916) 654-4262
Contact_Electronic_Mail_Address: rschlorff@dfg.ca.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile